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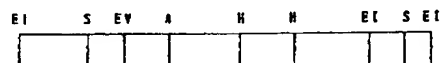
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(54) **LUCIFERASE GENE**

(57) Abstract:

PURPOSE: To isolate a gene of luciferase useful as an enzyme for ATP determination from luciferase of *Luciola lateralis* and to analyze structure of the gene.

CONSTITUTION: A DNA containing a gene to code luciferase of *Luciola cruciata* is searched by using a DNA containing a gene to code luciferase of *Photinus pyralis* as a probe and this DNA is used as a probe to search a DNA containing a gene to code luciferase of *Luciola lateralis*. The luciferase gene has restriction scission map shown by the figure (E1 is EcoRI, S is SspI, EV is EcoRV, A is Apal and E is HpaI).



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